200800001

No.



10 ML 10 WHOM THESE PRESERTS SHALL COME: Arkansas Agricultural Experiment Station, University of Arkansas

MICCORS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT (S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT (S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HERS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY CARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC LENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR NG IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE POSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY LD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEO.)

SOYBEAN

'Osage'

In Testimonn Murror, I have hereunto set my hand and caused the seal of the Hant Variety Protection Office to be affixed at the City of Washington, D.C. this sixteenth day of July, in the year two thousand and eight.

Attest:

Commissioner

Plant Variety Protection Office

Colword To Selvery pary of Agriculture

NAME (Please print or type)

Mark J. Cochran CAPACITY OR TITLE

Director, AAES

CAPACITY OR TITLE

DATE /28/07

(See reverse for instructions and information collection burden sta

DATE

#200800001

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

The seeds of Osage soybean are limited as to one generation of foundation seeds and certified seeds.

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

N/A

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

N/A

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displeys a valid OMB control number. The valid OMB control number for this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, ege, disability, and where applicable, sex, marital status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or cell (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A. Origin and Breeding History of 'Osage' Soybean

'Osage' soybean [Glycine max (L.) Merr.] was developed and released by the Arkansas Agricultural Experiment Station as a Maturity Group V conventional cultivar with high yield potential and moderately high protein content. Additionally, Osage is resistant to several important diseases in the mid-south, including southern stem canker, sudden death syndrome, soybean mosaic virus, and frogeye leaf spot.

Osage was originated from the cross between 'Hartz 5545' and 'KS4895'. The cross was performed in the field in 1993, and the F1 plants were space-planted (30 cm apart) in the field in 1994 at Fayetteville, AR. Osage was developed using a single pod bulk method and the early generation populations were grown in Fayetteville, AR. Seeds from the hybrid plants were bulked and planted in the field during 1995 to 1997, for the development of segregating populations from F2 to F4. The F2 to F4 populations each consisting of approximately 2000 plants were grown in 6.1m rows with 0.97m row spacing. One-hundred ten single plants were visually selected for yield and agronomic adaptation in the F_4 generation for 5% selection intensity. The $F_{4:5}$ lines were grown as 3m single-row progeny rows in Keiser, AR, in 1998. Osage traces back to a single-row progeny row as a pure line that has been evaluated in 130 field tests in several southern states. Osage was tested as experimental line R98-1821 in a total of 48 Arkansas environments and 82 environments in ten other southern states for seed yield, protein content, and agronomic performance from 1999 to 2006. Osage was found to be uniform and stable over eight generations before it was released as a cultivar in 2007. No variants were observed during reproduction and multiplication based on the distinguishing characteristics of plant and seed including flower color, hypocotyls color, pubescence

color, pod wall color, plant type, plant growth habit, leaf shape, seed shape, seed coat color, hilum color, and seed coat luster. Osage is widely adapted to areas between 33 to 37 °N latitude.

Exhibit B. Statement of Distinctness of 'Osage' Soybean

Osage soybean is most similar to soybean cv. 5601T. Osage has purple flowers, as compared to white flowers of 5601T. Osage is, in average, 14cm shorter than 5601T (76.2cm vs. 91.4cm, respectively, for 8 location average in 2004 (matched-pairs t-test p=0.0017); and 74.0cm vs. 86.7cm, respectively, for 8 locations average in 2005 (matched-pairs t-test p=0.0049). Additionally, seeds of Osage have imperfect black hila, as compared to buff hila of 5601T.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age,d isability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE

EXHIBIT

AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY Soybean (Glycine max (L.) Merr.)

NAME OF APPLICANT (S) Arkansas Agricultural Experimental Station	TEMPORARY OR EXPERIMENTAL DESIGNATION R98-1821	VARIETY	_	e age				
University of Arkansas ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country	FOR OFF			INLY				
115 Plant Science Building University of Arkansas Fayetteville, AR 72701		# 2			8 0	0	0	(
PLEASE READ ALL INSTRUCTIONS CAREFULLY:		<u></u>						
) when number is either 99 or less or 9 or less respectively. If we data should be determined from varieties entered in the sar					al So	ociety	y (
all questions for your variety; lack of response may delay								
A. MORPHOLOGY: Seed Shape: 1 = Spherical (L/W, L/T, and T/W ratios ≤1.2)	2 = Spherical-Flattened (L/W ratios> 1.2; L/T ratios ≤ 1.2)	D 0	Ç					
3 = Elongate (L/W ratios > 1.2; T/W ratios ≤ 1.2)	4 = Elongate-Flattened (L/T ratios ≥ 1.2; L/W ratios ≥ 1.2)							
Seed Coat Color: * 1 1 = Yellow 2 = Green 3 = Bro	wn 4 = Black 5 = Other (Please specify)							
Seed Coat Luster: 1 1 = Dull 2 = Shiny								
Seed Size: * 1 2 4 grams/100 seeds (rounded to	the nearest decimal (00.0))							

3 = Brown

4 = Gray

5 = Imperfect Black

6 = Black

2 = Yellow

7 = Other (Please specify)

Hilum Color:

1 = Buff

A. MORPHOLOGY: (continued)

		(55.1					
m*1	don Color:						
* [1]	1 = Yellow	2 = Green					
Seed	Protein Peroxida	ase Activity:					
*	1 = Low	2 = High					
Нурос	otyl Color:						
* 3	1 = Green ('Evans' or 'Da	avis') Band belo	with Bronze w cotyledons rth' or 'Tracy')		Purple tyledons or 'Pickett 71')	4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')	
[3]	1 = Lanceolate	e 2 = Oval	3 = Ovate	4 = Other (Please specify) ₋		
	Color:						
* 2	1 = White	2 = Purple	3 = White w	ith a Purple Th	nroat	•	
Pod C	olor:						
* 1	1 = Tan	2 = Brown	3 = Black				
	cence Color:						
	1 = Gray	2 = Brown (Taw	/ny) 3 =	Light Tawny			
Plant F	łabit:						
* 1	1 = Determinat	e 2 = Semi-d	leterminate	3 = Indeterm	inate 4 = Into	ermediate	
Maturit	y Group: 1 = 000	2 = 00	3 = 0	4 =	5 = 11		
LJ	6 = III	7 = IV	8 = V	9 = VI	10 = VII		
	11 = VIII	12 = 1	13 = X	14 = XI	15 = XII		
Maturit	y Subgroup:						

B. DISEASE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

NOTE: Failure to supply information for at least 5 of the following disease reactions will result in significant delay in the examination process. Items denoted by and asterisk are the disease reactions most useful in the examination process.

Bacterial

- Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)
- Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)
- Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

* 0	Brown Sp	ot (Se <i>ptoria gly</i>	cines Hemmi)		
* 3	Frogeye L	.e <u>af</u> Spot (<i>Cerce</i>	ospora sojina H	Hara)	
	race 1	race 3	race 5	race 7	
	race 2	race 4	race 6	Important: Any other races tested (Please specif	fy)

ST-470-02 (02-06) designed by the Plant Variety Protection Office using Microsoft Word 2003.

B. C	DISEA	SE	REAC'	TIONS:	(continued)
------	-------	----	-------	--------	-------------

	0	Target Spot (Corynespora cassiicola (Berk. & Curt.) Wei)
	0	Downy Mildew (Peronspora trifoliorum var. manchurica (Naum.) Syd. Ex Gäum)
	0	Powdery Mildew (Microsphaera diffusa Cke. & Pk.)
	0	Brown Stem Rot (<i>Phialophora gregata</i> (Allington & Chamberlain) W. Gams.)
*	2	Stem Canker (Diaporthe phaseolorum (Cke. & Ell.) Sacc. var. caulivora Athow & Caldwell)
*	0	Pod and Stem Blight (<i>Diaporthe phaseolorum</i> (Cke. & Ell.) (Sacc. var. <i>sojae</i> (Lehman) Wehm.)
	0	Purple Seed Stain (<i>Cercospora kikuchii</i> (T. Matsu. & Tomoyasu) Gardener)
	0	Rhizoctonia Root Rot (<i>Rhizoctonia solani</i> Kühn)
	0	Asian Soybean Rust (<i>Phakospora pachyrhizi</i> Sydw. (a.k.a. <i>Phakospora pachyrhizia</i> Sydw.))
		Other rust (Please specify)
Sne	acifu.	he gene(s) coding for reaction to Phytophthora Root Rot.
Opc		
•	_	Rps1
		Rps1-a Rps1-d Rps2 Rps3-c Rps6
		(Mukden) (PI 103.091) (CNS) (PI 340.046) (Altona)
٠.	Ш	Rps1-b
"Ph		uthora Root Rot (<i>Phytophthora sojae</i> (Kaufmann & Gerdemann))
		ace 1
٠		ace 2
		ace 3
	0	ace 4
	片	ace 5
		ace 6
		ace /
	[0]	ace 8
.*	[0]	Bud Blight (Tobacco Ringspot Virus)
		Yellow Mosaic (Bean Yellow Mosaic Virus)
*		Cowpea Mosaic (Cowpea Chlorotic Virus)
	n	Pod Mottle (Bean Pod Mottle Virus)
*	[<u>주</u>]	Seed Mottle (Soybean Mosaic Virus)
Ne	mato	de
Soy	<u>ybe</u> a	Cyst Nematode (Heterodera glycines Ichinohe)
ļ	<u>o</u>] ,	ace 1 $\frac{0}{1}$ race 4 $\frac{0}{1}$ race 9
	_1 ,	ace 2 0 race 5 1 race 14
	1 1	ace 3 o race 6 o Important: Any other races tested (Please specify)

В.	DISEASE REACTIONS: (continued)	
. [Lance Nematode (<i>Hoplolaimus columbus</i> Sher)	
	Southern Root Knot Nematode (<i>Meliodogyne incognita</i> (Kofoid & White) Chitwood)	
	Northern Root Knot Nematode (<i>Meliodogyne hapla</i> Chitwood)	
	Peanut Root Knot Nematode (<i>Meliodogyne arenaria</i> (Neal) Chitwood)	
	Reniform Nematode (<i>Rotylenchus reniformus</i> Linwood & Olivera)	
	Javanese Nematode (<i>Meliodogyne javanica</i> (Treub) Chitwood)	
Ī		
	important. Other Nematodes tested (Please specify)	
C. I	PHYSIOLOGICAL RESPONSES: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant	
	0 Iron Chlorosis on Calcareous Soil	
Ī	Phosphorus Important: Other (Please specify)	
Ī	Boron	
Ì	O Aluminum	
F		
_ <u> </u>		
· L	Drought	
D. I	INSECT REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant	
. [Mexican Bean Beetle (<i>Epilachna varivestis</i> Mulsant)	
	Soybean Aphid (<i>Aphis glycines</i> Matsamura)	
Ė	3 Soybean Aprilla (Aprillo grycines Matsanitura)	
<u></u>	Potato Leaf Hopper (<i>Empoasca fabae</i> (Harris))	
<u> </u>	Important: Other (Please specify)	
Ξ. μ	HERBICIDE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant	
	0 Metribuzin	
	0 Bentazone	
Ī	0 Sulfonylurea	
*	1 Glyphosate	-
	Olyphosate Glufosinate	
ļ		
[0	Pendimethalin O Important: Other (Blassa ansaits)	
L.	Important: Other (Please specify)	

F. TRANSGENIC COMPOSITION:

Has the development of the subject variety included the insertion	of genetic material from an organism other than a soybean,
or, the removal of genetic material from the application variety?	

If yes, please complete the following information requests*. Use additional pages if necessary.

- 1. Please state the vector's name:
- 2. Please state the vector components:
- 3. Please describe the genetic material successfully transferred into the subject variety:
- 4. Please describe the insertion protocol:
- * A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS:

Please describe any additional genetic and/or biochemical information which you believe will be helpful in further describing the subject variety here (e.g., Single Nucleotide Polymorphisms (SNPs), Simple Sequence Repeats (SSRs), Restriction Fragment Length Polymorphisms (RFLPs), Isozyme characterization, etc.). Use additional pages if necessary.

H. STATISTICAL DATA FOR APPLICATION AND CITED MOST SIMILAR VARIETIES:

Please provide paired comparison data and appropriate statistical test (e.g. LSD. Std. error, ANOVA, Mann-Whitney *U*-test or Kruskal-Wallis Test, etc.) value (95 or > probability level).

Variety	No. of days Maturity	Plant height (cm)	% Linoleic acid	% Oleic acid	% Linolenic acid	% Other fatty acids (specify)	% Total oil	% Protein (Plant dried down to 13 %)
Application Variety Year/Location 1 2004 Regional QT tests (8 loc mean)	44 a	76.2 b					18.1 a	39.9 a
Year/Location 2	38 a	74.0 b					17.9 b	38.2 a
2005 Regional QT tests (8 loc mean)								
Cited Most							40.4	
Similar Variety	43 a	91.4 a					18.4 a	39.1 b
Year/Location 1 2004 Regional QT tests (8 loc mean)	p=0.1360	p=0.0017					p= 0.8974	p=0.0372
Year/Location 2 2005 Regional QT tests (8 loc mean)	41 a p=0.8018	86.7 a p=0.0049		-			18.4 a p= 0.0143	37.1 b p=0.0037

Note: Statistical test used to test significance of mean differences is a matched-pairs t-test

I. COMMENTS:

REPRODUCE LOCALLY. Include form number and edition date on a	all reproductions. F	ORM APPROVED - OMB No. 0581-005
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	Application is required in order to det certificate is to be issued (7 U.S.C. 2	421). The information is held
EXHIBIT E	confidential until the certificate is issu	led (7 U.S.C. 2426).
STATEMENT OF THE BASIS OF OWNERSHIP 1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
• •	OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Arkansas Agricultural Experimental Station		Osage
University of Arkansas	R98-1821	1
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
	(479) 575-7564	(479) 545-7465
115 Plant Science Building	(479) 373-7304	(470) 040 7400
Department of Crop, Soil, and Environmental Sciences	7. PVPO NUMBER	
University of Arkansas		
Fayetteville, AR 72701	#200800	001
8. Does the applicant own all rights to the variety? Mark an "X" in the		
or 2000 the approach of the tenety: Mark an X III is	ne appropriate block. If no, please expla	
9. Is the applicant (individual or company) a U.S. national or a U.S.	based company? If no give name of c	ountry. 7 YES NO
· · · · · · · · · · · · · · · · · · ·	bacca company. If no, give name or o	
10. Is the applicant the original owner? YES	NO If no, please answer one	of the following:
<u>V</u>	□	
a. If the original rights to variety were owned by individual(s), is	(ara) the original surpor(s) a LLC Nation	al(a)2
YES	NO If no, give name of count	ury .
		i .
b. If the original rights to variety were owned by a company(ies	s), is (are) the original owner(s) a U.S. ba	sed company?
∏ YES	NO If no, give name of count	
<u>√</u> 125	Line, give name or count	
44 Additional audientics as a second of the		
 Additional explanation on ownership (Trace ownership from orig 	jinai breeder to current owner. Use the n	everse for extra space if needed):
		•
		•
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licen	sees) who meet the following criteria:	
tant variety procession can only be another to the owners (not neer	isces) who meet the following cinteria.	
f. If the rights to the variety are owned by the original breeder, that p	person must be a U.S. national, national	of a UPOV member country, or
national of a country which affords similar protection to nationals	of the U.S. for the same genus and spec	ies.
If the rights to the variety are owned by the company which emplor nationals of a UPOV member country, or owned by nationals of a	oyed the original breeder(s), the company	y must be U.S. based, owned by
genus and species.	country which anords similar protection	to nationals of the O.S. for the same
gonao ana oposios.		
. If the applicant is an owner who is not the original owner, both the	e original owner and the applicant must m	neet one of the above criteria.
The original breeder/owner may be the individual or company who d	tirected the final breeding. See Section 4	11(a)(2) of the Plant Variety Protection
Act for definitions.		
, , , , , , , , , , , , , , , , , , ,		
coording to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor		
ontrol number. The valid OMB control number for this information collection is 0581-0055 cluding the time for reviewing the instructions, searching existing data sources, gathering		
	, , , , , , , , , , , , , , , , , , ,	-
	activities on the basis of most color national affair as	ander religion and disability several orientation
natial or family status, political beliefs, parental status, or protected genetic information. (I	activities on the basis of race, color, national origin, go (Not all prohibited bases apply to all programs.) Perso	ns with disabilities who require alternative means fo

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE **SCIENCE AND TECHNOLOGY** PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F

	DECLARATION REGARDING DEPOSIT				
NAME OF OWNER (S) Arkansas Agricultural Experimental Station	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 115 PTSC Building - University of Arkansas	TEMPORARY OR EXPERIMENTAL DESIGNATION R98-1821			
University of Arkansas	Fayetteville, AR 72701	VARIETY NAME Osage			
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY			
Pengyin Chen	115 PTSC Building - University of Arkansas Fayetteville, AR 72701	#200800001			

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature	Date